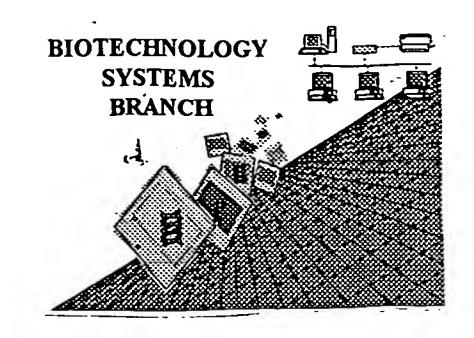
RAW SEQUENCE LISTING ERROR REPORT



51

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/831,62/
Source:	PCT/09
Date Processed by STIC:	10/11/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

DATE: 10/11/2001

TIME: 10:39:22

```
Input Set : A:\98,664-A.seq list.txt
                     Output Set: N:\CRF3\10112001\I831621.raw
                                                                           Does Not Comply
      3 <110> APPLICANT: Baum, Peter
                                                                       Corrected Diskette Needed
              DuBose, Robert
              Sims, John E
              Youakim, Adel
                                                                     pp 1-2
              Hasel, Karl W
              Hilbush, Brian S
     10 <120> TITLE OF INVENTION: Novel DNAs and Polypeptides
     12 <130> FILE REFERENCE: 98,664-A
C_{L}-> 14 <140> CURRENT APPLICATION NUMBER: US/09/831,621
     15 <141> CURRENT FILING DATE: 1999-11-10
     17 <150> PRIOR APPLICATION NUMBER: 60/107821
     18 <151> PRIOR FILING DATE: 1998-11-10
     20 <160> NUMBER OF SEQ ID NOS: 33
     22 <170> SOFTWARE: PatentIn Ver. 2.1
ERRORED SEQUENCES
     125 <210> SEQ ID NO: 9
     126 <211> LENGTH: (180)
     127 <212> TYPE: DNA
     128 <213> ORGANISM: Homo sapiens
     130 <400> SEQUENCE: 9
     131 cggctgcctg ccttttttc tgatccagac cctcggcacc tgctacttac caactggaaa
     132 attttacgca tcccatgaag cccagataca caaaattcca ccccatgatc aagaatcctg
                                                                             120
E--> 133 ctccactaag aatggtgcta aagtaaaact agtttaataa gccctaaaaa
     145 <210> SEQ ID NO: 11
     146 <211> LENGTH: 569
     147 <212> TYPE: DNA
     148 <213> ORGANISM: Homo sapiens
     150 <400> SEQUENCE: 11
     151 tcaatcctgg gcggcgacaa gacagctcta gagatctgag cttcctccca atgctaaact
                                                                              60
     152 gctttcatgc taattttctg actgtttact taccgggtaa gagcgatggg actgttttca
                                                                             120
     153 ttggttggtt ctcacatact ctctgggaag tttgggttct cagggacacc tgctcctcag
                                                                             180
     154 ctggggacca tggccatggc ccaccacctg cccttcagtg ttcaagcagg ggacatgcac
                                                                             240
     155 cctttagtaa cctggagggg acccatcaca tgacaaccac cccaacgacc atcatcagga
                                                                             300
     156 agccgctgcc tgactgagat atgcccccag gaggacaagg gagagtggat gctggaaaga
                                                                             360
                                                                             420
     157 cagggcaggg gaccatcacc agggaaagac ttcattcttc ggaggacatt gaacctgggg
     158 ctgggtctgt agtggagccg ctgtttcttc tcctgtatcc aactgttcta actcttgggc
                                                                             480
E--> 159 tttctccatt ttcagctctt tcttttcctg gccttctcat tgctggntcc ttcaagcctc
                                                                             540
E--> 160 contetating treegingaat atattettt
                                                                             569
     182 <210> SEQ ID NO: 13
     183 <211> LENGTH: 618
     184 <212> TYPE: DNA
     185 <213> ORGANISM: Homo sapiens
     187 <400> SEQUENCE: 13
     188 cacgagetgt etggttatta tacagaegea taactggagg tgggateeae acageteaga 60
```

US/09/831,621

RAW SEQUENCE LISTING

PATENT APPLICATION:

RAW SEQUENCE LISTING DATE: 10/11/2001 PATENT APPLICATION: US/09/831,621 TIME: 10:39:22

Input Set : A:\98,664-A.seq list.txt
Output Set: N:\CRF3\10112001\1831621.raw

	189	acagctggat	cttgctcagt	ctctgccagg	ggaagattcc	ttggaggagg	ccctgcagcg	120
	190	acatggaggg	agctgctttg	ctgagagtct	ctgtcctctg	catctggatg	agtgcacttt	180
	191	tccttggtgt	gggagtgagg	gcagaggaag	ctggagcgag	ggtgcaacaa	aacgttccaa	240
	192	gtgggacaga	tactggagat	cctcaaagta	agcccctcgg	tgactgggct	gctggcacca	300
	193	tggacccaga	gagcagtatc	tttattgagg	atgccattaa	gtatttcaag	gaaaaagtga	360
	194	gcacacagaa	tctgctactc	ctgctgactg	ataatgaggc	ctggaacgga	ttcgtggctg	420
	195	ctgctgaact	gcccaggaat	gaggcagatg	agctccgtaa	agctctggac	aaccttgcaa	480
	196	gacaaatgat	catgaaagac	aaaaactggc	acgataaagg	ccagcagtac	agaaactggt	540
						gataacataa		600
E>		gtgcccttgc						618
			Y					
			J					
	٠		`. <i>O</i>					
			tem 9					

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/831,621

DATE: 10/11/2001 TIME: 10:39:23

Input Set : A:\98,664-A.seq list.txt
Output Set: N:\CRF3\10112001\I831621.raw

L:14 M:270 C: Current Application Number differs, Replaced Application Number

L:133 M:254 E: No. of Bases conflict, LENGTH:Input:180 Counted:170 SEQ:9 L:133 M:252 E: No. of Seq. differs, <211>LENGTH:Input:180 Found:170 SEQ:9

L:159 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:11

M:340 Repeated in SeqNo=11

L:198 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:13

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09/83/, 621
	S: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWAI
1Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, Palentin would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to Include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number
	000
Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
0Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
1Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
2PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
3Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/2001